

FIG. 1

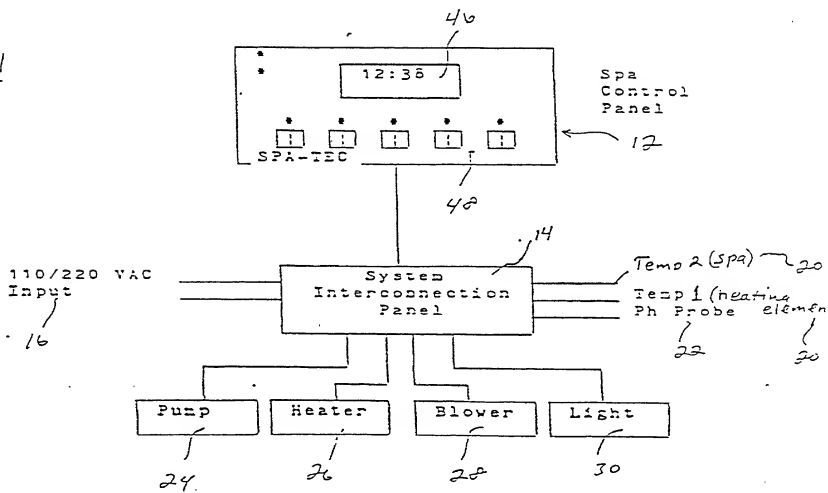


FIG. 2

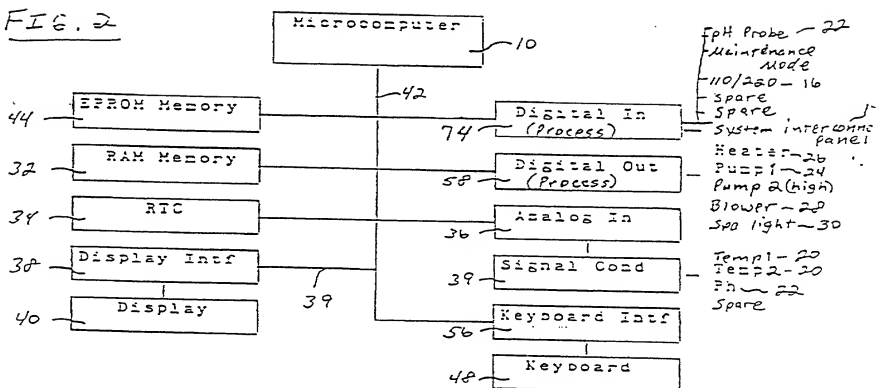


FIG. 3

FIG. 3

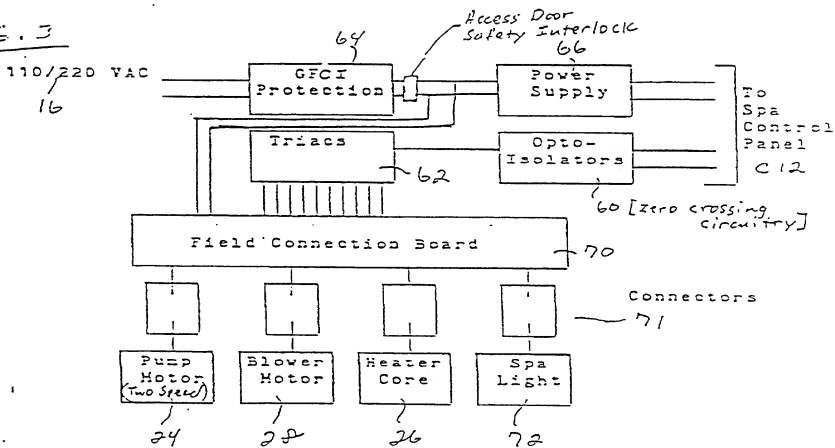


FIG. 4

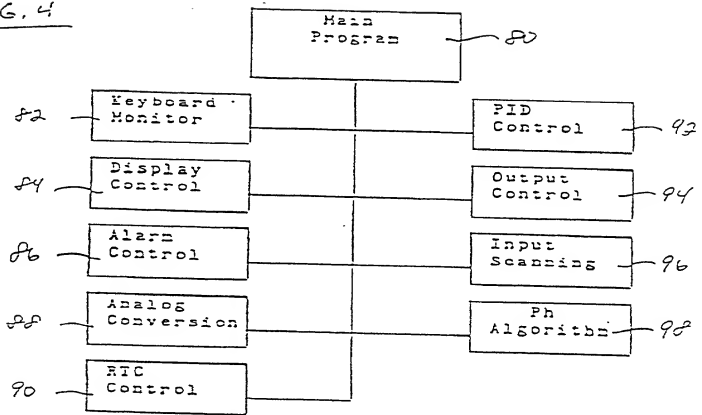


FIG. 5

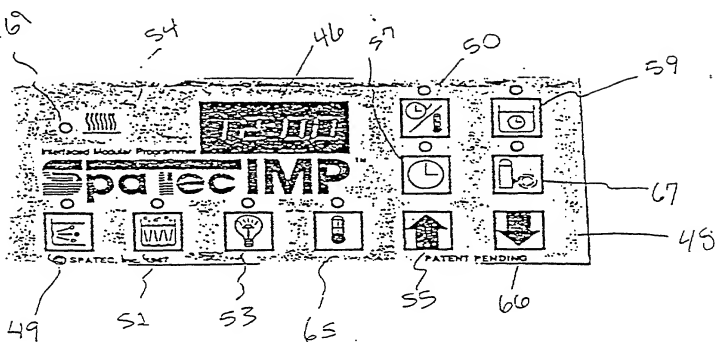
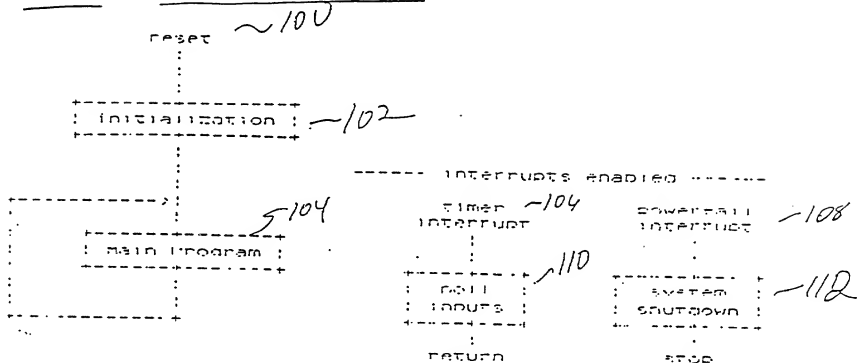


FIG. 6 - Overall Flow or Control



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FIG. 7

Temp = Desired Temperature of Spa Water

Temp₁ = Temperature at First Sensor (S₁)

Temp₂ = Temperature at Second Sensor (S₂)

Temp_D = Temp₁ - Temp₂

'ΔL' = Limit of acceptable temperature difference (plus or minus).

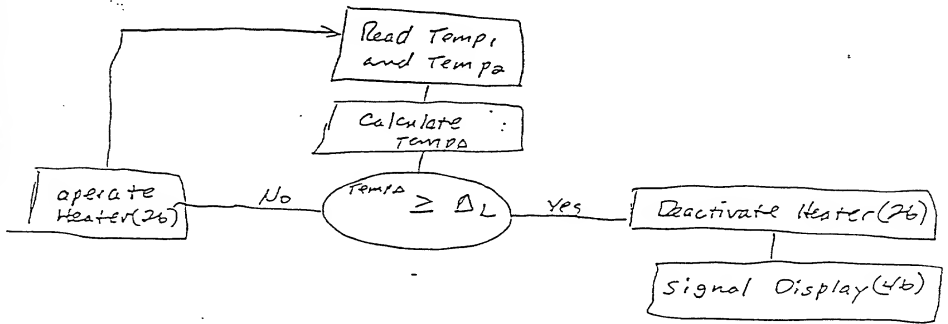


FIG. 2

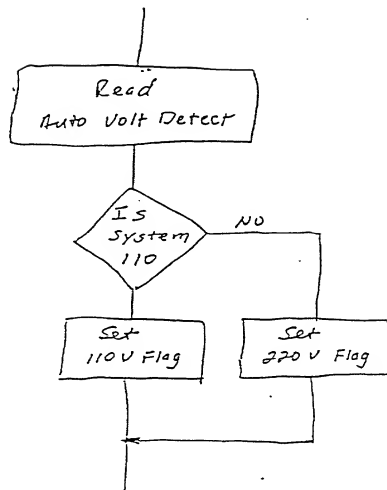


FIG. 9

Rate = Rate of Heating
Rate_{Av} = Rate of Heating (average)
Temp_F = Desired temperature of spa water
Temp_I = Initial temperature of spa water
Temp_Δ = Temp_F - Temp_I
Time_I = Time (initial)
Time_F = Time (final)
Time_Δ = Time_F - Time_I

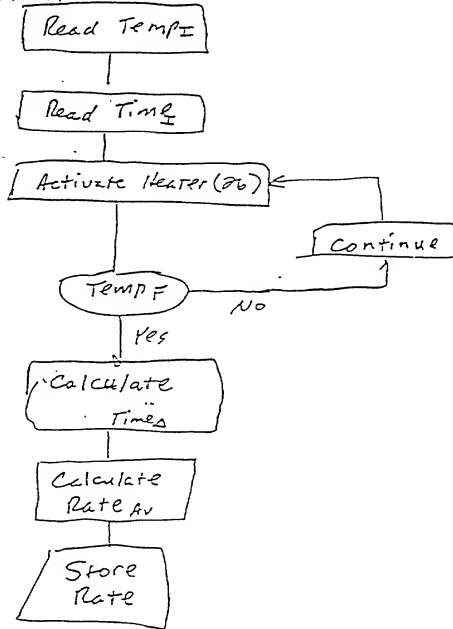


FIG 10

$Temp_I$ = Initial temperature of Spa water
 $Temp_F$ = Final temperature (desired) of Spa water
 $Temp_D = Temp_F - Temp_I$
 $Rate$ = Rate of Heating
 $Rate_{AV}$ = Rate of Heating (average)
 $Time_I$ = Initial time
 $Time_F$ = Final time ...
 $Time_D = Time_F - Time_I$

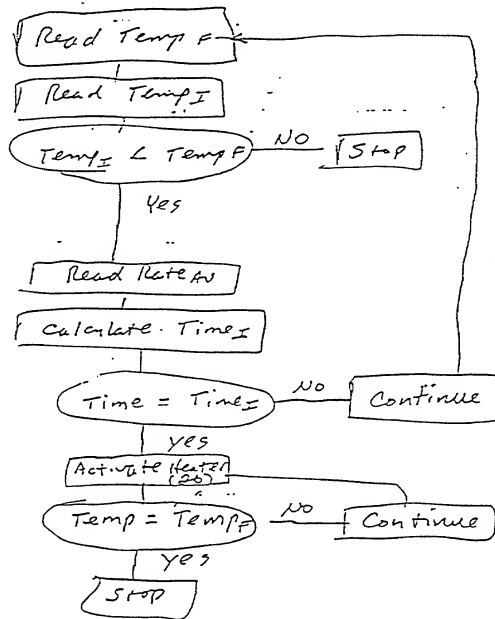


FIG. 11

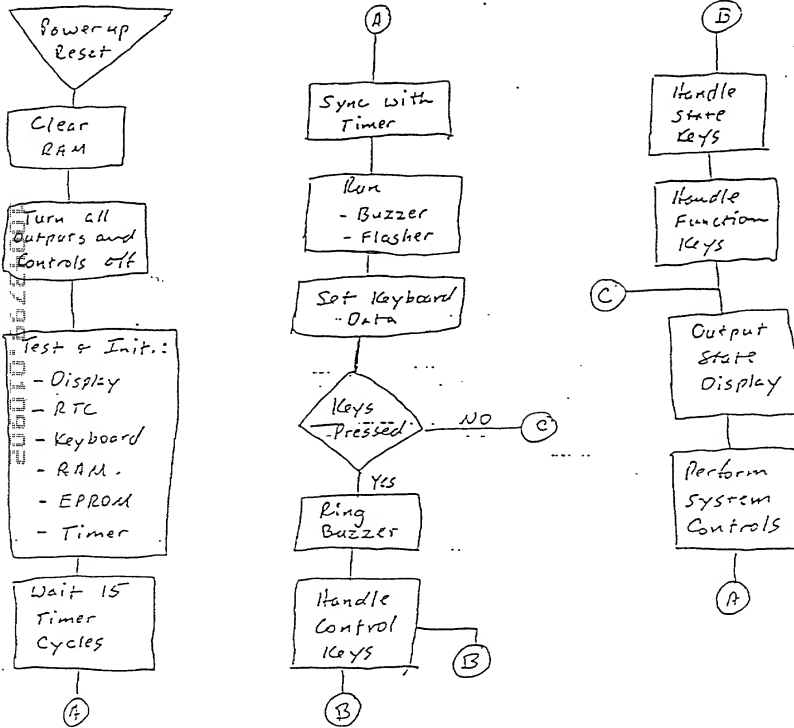


FIG. 12

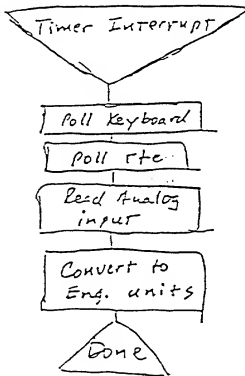


FIG. 13

